

Pradeep Reddy V

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SUMMARY

Backend engineer who reduced partner onboarding from weeks to days at India's fastest-growing fintech bank. Built systems processing 100+ TPS with <1s latency. Now building AI-Powered Systems & Distributed Applications at ASU.

EDUCATION

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| Arizona State University | Tempe, AZ |
| Master of Science, Computer Science (MSCS) | Dec 2026 |
| Courses: Distributed Database Systems (MS), Statistical Machine Learning (MS) | |
| PES University | Bangalore, India |
| Bachelor of Technology, Computer Science and Engineering | May 2023 |
| Courses: Web Development, Cloud Computing, Machine Intelligence, Big Data Awards: Distinction Award | |

SKILLS

Programming Languages: Python (proficient), Java (proficient), JavaScript (intermediate), C/C++ (moderate), TypeScript
Frameworks & Libraries: Spring Boot, Flask, ReactJS, Node.js, MuleSoft, Microservices, PyTorch, Keras, TensorFlow, Plotly
Cloud & Databases: AWS, GCP, Docker, Kubernetes, Git, Jira, RESTful APIs, CI/CD, Linux, PostgreSQL, MySQL, MongoDB, Elasticsearch, Oracle, SQL, Redis, Kafka, AirFlow

EXPERIENCE

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|---|-----------------------|
| IDFC First Bank | Hyderabad, India |
| <i>Software Engineer (Spring Boot, ReactJS, Python, Oracle, MySQL, Kafka)</i> | July 2023 – July 2025 |
| <ul style="list-style-type: none">Built RESTful APIs and microservices for Partner Developer Portal, enabling fintech partners (Amazon Pay, Cred, Flipkart Buy Now Pay Later) to explore, test, and integrate services, reducing partner onboarding time from 12 days to 4 days through Swagger documentation, real-time validation, and sandbox testing.Developed full-stack API Inventory Platform for lifecycle and compliance tracking, improving cross-team efficiency by 70% and reducing RBI (Reserve Bank of India) compliance delays by 40% via advanced filters and metadata workflow automation.Mentored two junior devs on API design and code review processes, improving consistency, reducing deployment errors.Optimized high-throughput Digital Lending APIs to handle 100+ TPS for Aadhaar OTP and CKYC flows, improving onboarding performance and regulatory compliance with sub-second latency.Contributed to infrastructure modernization, including On-Premise to AWS migration, MySQL to Oracle transition, disaster recovery upgrades, achieving 99.9% uptime, and reducing infrastructure costs by 50%. | |
| IDFC First Bank | Hyderabad, India |
| <i>Application Engineer Intern (Spring Boot, Python, Oracle, MySQL)</i> | Feb 2023 – Jun 2023 |
| <ul style="list-style-type: none">Developed RESTful APIs integrating Salesforce data via MuleSoft with OAuth 2.0 authentication and Redis caching (TTL-based), reducing SFDC calls, cutting costs, and decreasing fetch time by 65%. | |
| Artenal (Startup) | Bangalore, India |
| <i>Machine Learning Intern (Python, PyTorch, numpy, OpenCV, Keras, TensorFlow)</i> | May 2021 – Oct 2021 |
| <ul style="list-style-type: none">Optimized computer vision models for fruit-harvesting robot, improving disease classification F-1 score by 0.35, detection accuracy by 0.2, and reducing inference time by 20% for real-time deployment. | |

RESEARCH/PROJECTS

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| OmniSense HackASU 2025, Anthropic | (Next.js, TypeScript, Claude 4.5, MCP, Polymarket, Valyu search) |
| <ul style="list-style-type: none">AI-powered prediction market analysis using 7 specialized agents and Bayesian probability aggregation, real-time data. | |
| CityTraffic NLQ and Analytics ASU, Distributed Database Systems | (MongoDB, Vector Search, Flask, React, Airflow, Locust) |
| <ul style="list-style-type: none">Built distributed analytics platform with geohash-based sharding (RF=3) and LLM-powered query interface, achieving P95 latency <600ms for spatio-temporal queries across 2M+ NYC traffic records. | |
| Code Completion Models Comparative Analysis ASU, Statistical Machine Learning | (PyTorch, HuggingFace Transformers, BERT) |
| <ul style="list-style-type: none">Implemented and evaluated LSTM, BERT, and CodeGPT-small-java models for Java code completion using PyTorch on 10K+ GitHub repositories, achieving Top-K accuracy benchmarks across multiple context windows (64-256 tokens). | |
| Build My Web (Image to HTML code) PESU, Mini Project, Prof. Vinay Josh | (Flask, React, OpenCV, TensorFlow) |
| <ul style="list-style-type: none">Built ML pipeline converting hand-drawn wireframes to HTML/CSS using CNN+CTC model and OpenCV, with React editor for real-time UI customization, achieving 95% OCR accuracy and reducing prototyping time by 30%. | |

PUBLICATIONS AND ACHIEVEMENTS

- Smart Driving Assistance Using Deep Learning, Computational Sciences and Sustainable Technologies (ICCSST 2023), **Springer, 2024**
- Competitive Programming - Achieved **Global Rank 22/3200** in **Code-Chef April Long Challenge 2022**.